

ABSTRACT

The present invention relates to transmission and reception of broadcast signals and more particularly to a method and apparatus for correlating a digital signature to video frames and/or audio segments to creates a conditional preference. The invention is especially concerned with a method and apparatus for correlating the transmission of audio-video segments to digital signatures over a wireless or non-wireless medium to allow for real-time substitution and processing of audio and video programs. In one embodiment at least one digital signature having a correlated audio-video segment is transmitted as a digital waveform within an analog modulated signal representing the audio-video segment. The analog modulated signal is transmitted to a wireless receiver. The wireless receiver demodulates the digital waveforms while concurrently playing the correlated audio-video segment. An electronic user interface comprising a function control enables the wireless receiver to define conditional preferences. A default conditional preference enables the wireless receiver to actively scan a plurality of channels and Internet addresses to substitute a currently playing audio-video segment with a preferred audio-video segment. One aspect of the invention a conditional preference for interpolating geographical information is derived from a GPS device and geographical coordinates identified within the digital signature to provide preferred geographical locations and directions. Yet another aspect of the invention permits the conditional preference to be communicatively coupled to alternative devices through an infrared interfacing unit and/or smart card interfacing unit. In an alternative embodiment the invention, a distributed computer network is the broadcast system

transmitting digital signatures to either a wireless or non-wireless computer. The computer receives the digital signature and a data stream to construct and execute conditional preferences.